

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 03113070  
PUBLICATION DATE : 14-05-91

APPLICATION DATE : 27-09-89  
APPLICATION NUMBER : 01252987

APPLICANT : KURARAY CO LTD;

INVENTOR : MAEDA YOSHINUKI;

INT.CL. : D06M 11/38 D01F 6/86 D01F 8/14 // D06M101:32

TITLE : PRODUCTION OF POLYESTER FIBER

ABSTRACT : PURPOSE: To obtain a fiber having grooved fiber surface and wool-like feeling by producing a conjugate fiber having a sheath composed of a polymer produced by adding a specific glycol to a polyester containing a specific acid component and a core component composed of a common polyester and thinning the conjugate fiber with an alkali.

CONSTITUTION: The conjugate fiber to be used as the starting material contains (A) a sheath component composed of a polymer produced by adding 0.5-3 pts.wt. of a polyalkylene glycol having a molecular weight of 1,000-20,000 to 100 pts.wt. of a polyester containing 2.5-7.5mol% (based on the total acid component) of a 5-alkali metal sulfoisophthalate at a ratio (A:B) of 1:4 to 4:1. The fiber is treated with an aqueous solution of preferably potassium hydroxide until  $\geq 3$ wt.% of the fiber is dissolved to effect the thinning treatment of the fiber and obtain a polyester fiber having grooved fiber-surface structure crossing the fiber axis at right angle. The woven or knit fabric of the fiber is resistant to the slippage of the fiber and has a wool-like soft feeling.

COPYRIGHT: (C)1991,JPO&Japio